INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/004746

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl⁷ G01N35/02, C12M1/02, C12N15/09, C12Q1/68, G01N1/36, 33/53, 37/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G01N33/48-37/00, C12M1/00-1/02, C12N15/09, C12Q1/68, G01N1/00-1/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005 Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) JICST FILE (JOIS), WPI/L (QUESTEL)

DOCUMENTS CONSIDERED TO BE RELEVANT

Further documents are listed in the continuation of Box C.

document defining the general state of the art which is not considered to be of particular relevance

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	JP 2003-339375 A (Hitachi, Ltd.),	1
Y	02 December, 2003 (02.12.03),	4-7,9-14
A	Par. No. [0031]; Fig. 5 (Family: none)	2,3,8
Y	JP 2003-329679 A (Akita-Ken),	4-7,9-14
	19 November, 2003 (19.11.03), Full text; Figs. 1 to 2 (Family: none)	2,3,8
Y A	JP 2004-20386 A (Toray Industries, Inc.), 22 January, 2004 (22.01.04), Full text; Figs. 1 to 5	4-7,9-14 2,3,8
	(Family: none)	

See patent family annex.

the principle or theory underlying the invention

later document published after the international filing date or priority date and not in conflict with the application but cited to understand

aE* earlier application or patent but published on or after the international filing date L* document which may throw doubts on priority claim(s) or which is	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search	Date of mailing of the international search report		
07 April, 2005 (07.04.05)	26 April, 2005 (26.04.05)		
Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer		
Facsimile No.	Telephone No.		

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Special categories of cited documents:

INTERNATIONAL SEARCH REPORT

International application No.
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	161/01	2005/004746
C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2003-248008 A (The Institute of Physical and Chemical Research), 05 September, 2003 (05.09.03), Full text; Figs. 1 to 4 & EP 1327473 A1 & US 2003134316 A1 & CN 1432428 A	1-14
P,A	JP 2004-144521 A (Hitachi, Ltd.), 20 May, 2004 (20.05.04), Full text; Figs. 1 to 16 & US 2004110278 Al	1-14
P,A	JP 2004-357698 A (Aloka Co., Ltd.), 24 December, 2004 (24.12.04), Full text; Figs. 1 to 8 (Family: none)	1-14
P,A	JP 2004-264289 A (Toray Industries, Inc.), 24 September, 2004 (24.09.04), Full text; Figs. 1 to 5 (Family: none)	1-14
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